

**THE FOLLOWING ARE THE ENGLISH TRANSLATION  
OF ANNEXES TO THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT (ARTICLE 34):**

Amended Sheets (Pages 5, 13, & 14)

The fraction and the position of the methyl branches may be determined by gas chromatography and by the customary methods.

The olefin mixture may stem from a multitude of sources and be aftertreated by suitable steps in order to exhibit the inventive branching pattern. For example, linear or selectively branched olefins may be added to a mixture, or a removal of certain olefins from the mixture may be carried out.

For example, the olefin is obtained by

- a1) preparing a C<sub>4</sub>/C<sub>5</sub>-olefin mixture,
- b1) converting the C<sub>4</sub>/C<sub>5</sub>-olefin mixture obtained in this way over a metathesis catalyst to prepare an olefin mixture comprising 2-pentene and/or 3-hexene and/or 3-heptene, and if appropriate removing 2-pentene and/or 3-hexene and/or 3-heptene,
- c1) dimerizing the 2-pentene and/or 3-hexene and/or 3-heptene obtained in stage b1) over a dimerization catalyst to give a mixture comprising C<sub>10-14</sub>-olefins and if appropriate removing the C<sub>10-14</sub>-olefins.

In stage a1), the C<sub>4</sub>-olefins of the C<sub>4</sub>/C<sub>5</sub>-olefin mixture may be obtained by dehydrogenating the C<sub>4</sub> fraction of the LPG, LNG or MTO stream and subsequently removing any dienes, alkynes and enynes formed, and the C<sub>4</sub> fraction of the LPG, LNG or MTO stream may be removed from the LPG, LNG or MTO stream before or after the dehydrogenation and removal of dienes, alkynes and enynes. The LNG stream may be converted to the C<sub>4</sub>-olefin mixture via an MTO process.

In stage c1), heptenes may also be mixed in.

The olefin mixture may also be obtained by

- a2) preparing a C<sub>5-7</sub>-olefin mixture by dehydrogenating C<sub>5-7</sub>-alkanes with upstream or downstream isomerization if appropriate,
- b2) dimerizing the C<sub>5-7</sub>-olefin mixture obtained in stage a2) over a dimerization catalyst to give a mixture comprising C<sub>10-14</sub>-olefins and if appropriate removing the C<sub>10-14</sub>-olefins.